

## MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

# DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

### **NOTICE OF ACCEPTANCE (NOA)**

ES Windows, LLC 3550 NW 49 Street Miami, FL 33142

#### Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

#### DESCRIPTION: Series "5100 Fixed Casement" Aluminum Fixed Window - L. M. I.

**APPROVAL DOCUMENT:** Drawing No. W11–15, titled "Series 5100 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 7 of 7, dated 03/22/11, with revision E dated 06/14/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

#### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla**, **Colombia S.A.**, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises and renews NOA# 15-0129.04 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Jorge Plasencia, P.E.

MIAMI-DADE COUNTY APPROYED 109/2016

NOA No. 16-0922.02 Expiration Date: September 22, 2021 Approval Date: September 29, 2016

Page 1

#### ES Windows, LLC

#### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### A. DRAWINGS

- 1. Manufacturer's die drawings and sections. (Submitted under NOA No. 11-0531.09)
- 2. Drawing No. W11-15, titled "Series 5100 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 7 of 7, dated 03/22/11, with revision E dated 06/14/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

#### B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of an aluminum fixed casement window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-6294** and **FTL-6295**, dated 02/25/11 and 03/16/11 respectively, both signed and sealed by Marlin D. Brinson, P.E.

(Submitted under NOA No. 11-0531.09)

#### C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-5<sup>th</sup> Edition (2014), dated 10/28/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

(Submitted under NOA No. 15-0129.04)

2. Glazing complies with ASTM E1300-09

#### D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

#### E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 14-0916.10 issued to Kuraray America, Inc. for their "Kuraray Butacite® PVB Glass Interlayer" dated 06/25/15, expiring on 12/11/16.
- 2. Notice of Acceptance No. 14-0916.11 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Interlayer" dated 06/25/15, expiring on 07/04/18.

Jorge M. Plasencia, P.E. Product Control Unit Supervisor

NOA No. 16-0922.02

Expiration Date: September 22, 2021 Approval Date: September 29, 2016

#### ES Windows, LLC

#### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### F. STATEMENTS

- 1. Statement letter of conformance, complying with FBC-5<sup>th</sup> Edition (2014), and of no financial interest, dated 06/13/16, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
- 2. Laboratory compliance letter for Test Reports No. FTL-6294 and FTL-6295, issued by Fenestration Testing Laboratory, Inc., dated 02/25/11 and 03/16/11 respectively, both signed and sealed by Marlin D. Brinson, P.E. (Submitted under NOA No. 11-0531.09)
- 3. Proposal No. **10–0505** issued by Product Control, dated 06/29/10, signed by Manuel Perez, P. E.

(Submitted under previous NOA No. 11-0531.09)

4. Distributor Agreement between, E.S. Windows – Energia Solar S.A., Barranquilla, Colombia and E.S. Windows, LLC, Miami, Florida, U.S.A., dated 10/20/10, signed by Carla Garcia Torrente and by Andres Chamorro, respectively.

(Submitted under previous NOA No. 11–0531.09)

#### G. OTHERS

1. Notice of Acceptance No. **15-0129.04**, issued to ES Windows, LLC, for their Series "5100 Casement" Aluminum Fixed Window - L.M.I., approved on 05/14/15 and expiring on 09/22/16.

Jorge M. Plasencia, P.E. Froduct Control Unit Supervisor NOA No. 16-0922.02

Expiration Date: September 22, 2021 Approval Date: September 29, 2016

## **SERIES 5100** ALUMINUM FIXED WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIX./FIX. OR FIXED WITH SERIES 5000 CASEMENT WINDOWS USING MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM CASEMENT WINDOW, FIXED WINDOW OR MULLION CHART WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

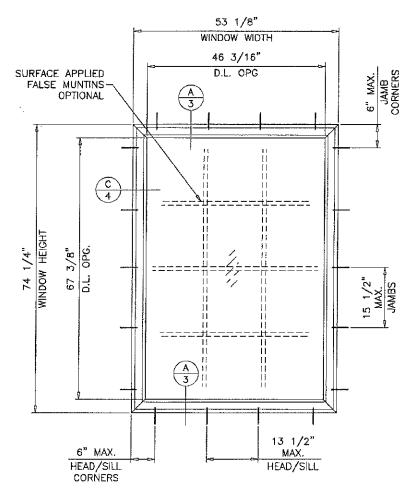
ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2014 FLORIDA BUILDING CODE & ADOPTED STANDARDS.



TYPICAL ELEVATION TESTED UNIT

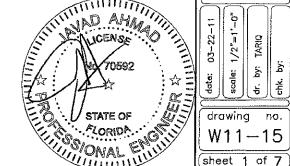
DAYLITE OPENINGS: D.L.O. HEIGHT = WINDOW HEIGHT - 6.9375" D.L.O. WIDTH = WINDOW WIDTH -6.9375"

> THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

PRODUCT REVISED as complying with the Florida Building Code 16-0922.02 NOA-No.

Expiration Date 09/22/2021

Miami-Dade Product Control



	Рý					
revisions:	date	08.03.11	02,20,12	C 10.29,14	05.06.15	E 06.14.16
 revi	OU OU	4	8	ပ	0	
date: 03-22-11		scale: 1/2"=1'-0"		dr. by: TARIQ		cnk. by:
1		wir	ng		no	
V	۷.	1 1	-		15	5

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

(L.M.I.)

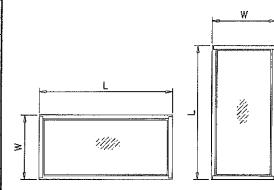
WDW.

E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638—5151 FAX. (305)

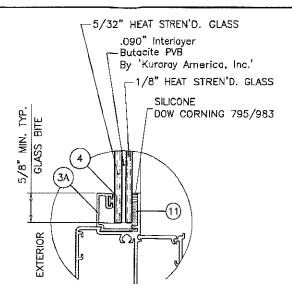
01200

DESIGN LOAD CAPACITY - PSF									
GLASS TYPES WINDOW DIMS. 'C', 'D', 'E' & 'F'									
WIDTH (W)	LENGTH (L)	EXT.(+)	1NT.(~)						
24"		90.0	90.0						
30"		90.0	90.0						
36"		90.0	90.0						
42"	42"	90.0	90.0						
48"		90.0	90.0						
54"		90.0	90.0						
60"		90,0	90.0						
62"		90,0	90.0						
24"		90.0	0.09						
30"		90.0	90.0						
36"		90.0	90.0						
42"	48"	90.0	90.0						
48"		90.0	90.0						
54"		90.0	90.0						
60"		90.0	90.0						
62"		90.0	90.0						
24"		90.0	90.0						
30"		90.0	90.0						
36"		90.0	90.0						
42"	54"	90,0	90.0						
48"		90.0	90.0						
54"		88.5	88.5						
60"		88.5	88.5						
62"		88.5	88.5						
24"		90.0	90.0						
30"		0,08	90.0						
36"		90.0	90.0						
42°	60"	90.0	90.0						
48"		90.0	90.0						
54"		88,5	88.5						
60"		79.7	79.7						
62"		79.7	79.7						
24"		90.0	90,0						
30"		90.0	90.0						
36"		90.0	90.0						
42"	66"	90.0	90.0						
48"		90.0	90.0						
54"	ļ	88.5	88.5						
59"	ļ	81.0	81.0						
24"		90.0	90.0						
30"	}	90.0	90.0						
36"		90.0	90.0						
42"	72"	90.0	90.0						
48"	ŀ	90.0	90.0						
54 <b>"</b>	ŀ	88.5	88.5						
24"		90,0	90.0						
30"		90.0	90.0						
36"	ŀ	90.0	90.0						
42"	76"	90.0	90.0						
48"	-	90.0	90.0						
	i								

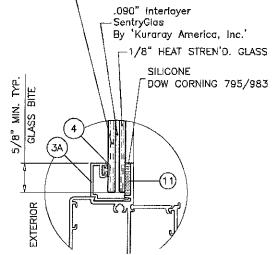
	DESIGN LOAD CAPACITY - PSF							
	WINDO	W DIMS.	GLASS	TYPES 'E' & 'F'				
	WIDTH (W)	LENGTH (L)	EXT.(+)	1NT.(-)				
	19-1/8"		90.0	90.0				
i	26-1/2°		90.0	90.0				
	37"	06"	90.0	90.0				
	48"	26"	90.0	90.0				
	53-1/8"		90,0	90.0				
	62"		90.0	90.0				
	19-1/8"		90.0	90.0				
	26-1/2*		90.0	90.0				
	37"	383/8"	90.0	90.0				
	48"	36-3/6	90.0	90.0				
	53-1/8"		90.0	90.0				
	62"		90.0	90.0				
ļ	19-1/8"		90.0	90.0				
	26-1/2"		90.0	90.0				
	37"	50-5/8"	90.0	90.0				
ļ	48"	30-3/0	90.0	90.0				
	53-1/8"		90.0	90.0				
	62"		90.0	90.0				
	19-1/8"		90.0	90.0				
	26-1/2"		90.0	90.0				
	37"	63"	90.0	90.0				
١	48"	63	90.0	90.0				
	53-1/8"		90.0	90.0				
	62"		77.1	77.1				
	19-1/8"		90.0	90.0				
	26-1/2"		90.0	90.0				
	37"	741/4"	90.0	90.0				
	48"		90.0	90.0				
	53-1/8"		90.0	90.0				
ſ	19-1/8"		90.0	90.0				
	26-1/2"		90.0	90.0				
	37"	76"	90.0	90.0				
	48"		90.0	90.0				
1	51"		90.0	90.0				



WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.



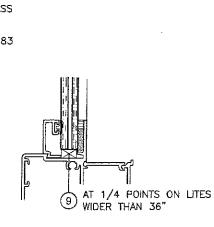
GLASS TYPE 'C'



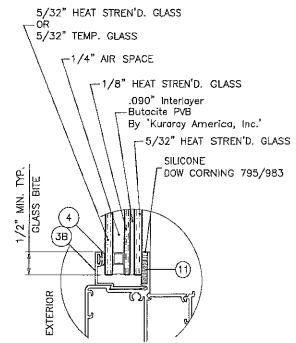
-5/32" HEAT STREN'D. GLASS

GLASS TYPE 'D'

5/32" HEAT STREN'D. GLASS

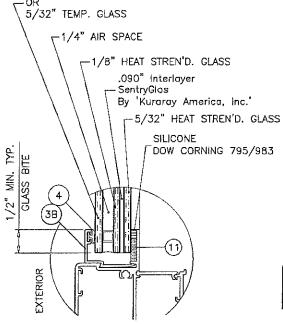


SETTING BLOCKS AT LAM. GLASS NOTCH GLAZING BEAD LEG TO CLEAR BLOCKS

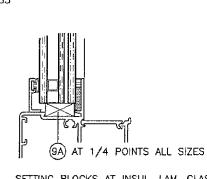


GLASS TYPE 'E'

NOTE:



GLASS TYPE 'F'



SETTING BLOCKS AT INSUL. LAM. GLASS NOTCH GLAZING BEAD LEG TO CLEAR BLOCKS

## GLAZING OPTIONS

NOTE: TO QUALIFY FOR SMALL MISSILE IMPACT RATING EXTERIOR PLY OF GLASS TYPES 'E' & 'F' MUST BE TEMPERED.

> **PRODUCT REVISED** as complying with the Florida Building Code 16-0922.02 NOA-No. Expiration Date 09/22/2021

Miami-Date Product Control

GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).



revision	no dat	A 08.03	S B 02.20	C 10.29	05.06	L
03-22-11		1/2" = 1"		y: TARIQ		 o.k.:
date:		scale:		r. B		CAK.

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 2648100 FAX. (305) 262-6978

(305)

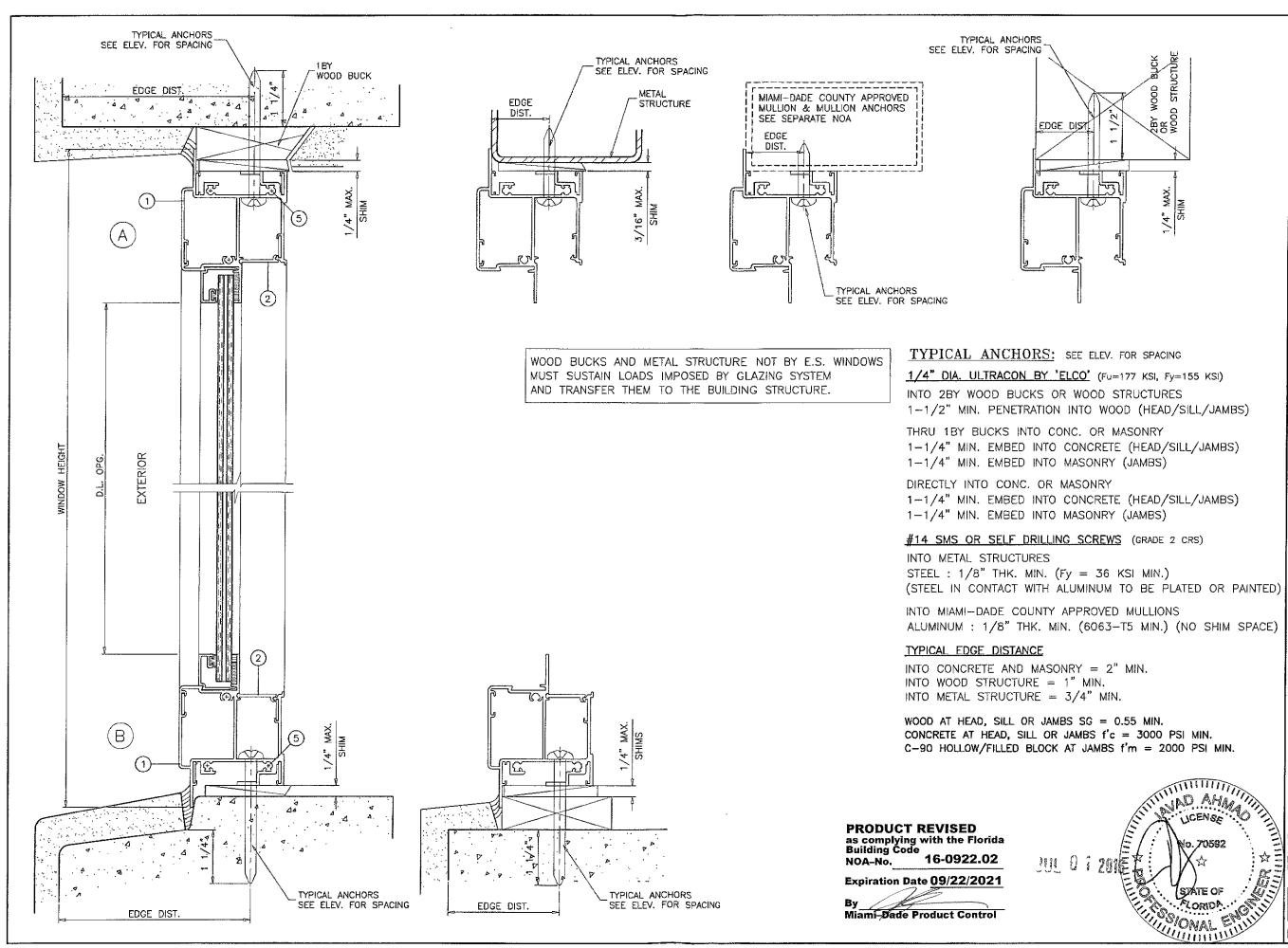
S. WINDOWS, LLC 50 N.W. 49 STREET AMI, FL 33142 . (305) 638–5151 FAX. (

5100 ALUMINUM FIXED

date: 03-22-11	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:

drawing no. W11 - 15

sheet 2 of 7



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMÍ, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 2648100 FAX. (305) 262-6978

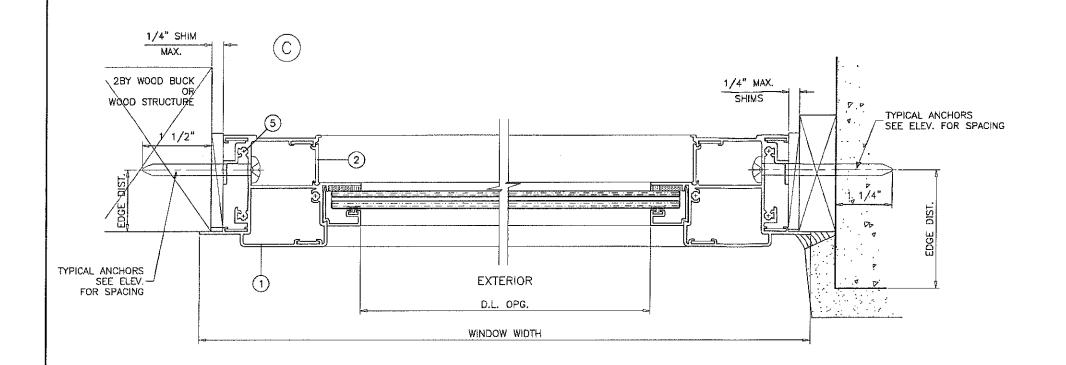
WINDOWS, LLC N.W. 49 STREET I, FL 33142 305) 638-5151 FAX. (

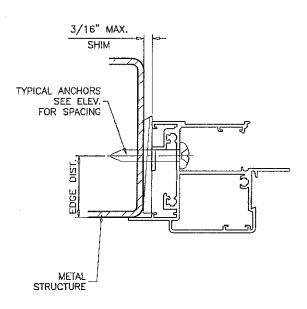
5100 ALUMINUM FIXED

WDW.

Ą. drawing no. W11 - 15

sheet 3 of 7

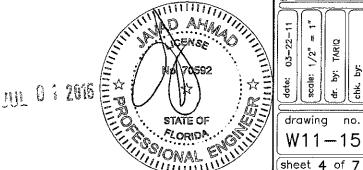




PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 16-0922.02

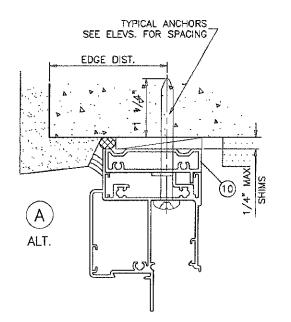
**Expiration Date** 09/22/2021

Miami-Dade Product Control



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 2000			TEL (305) 638_5151

drawing no. W11 - 15

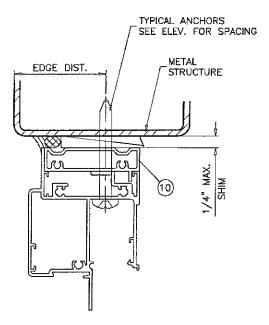


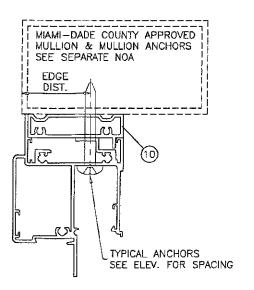
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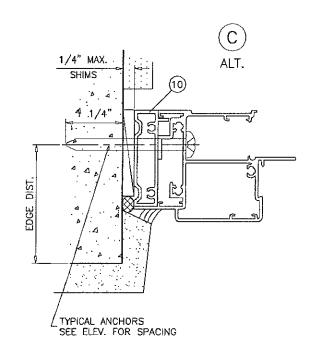
ALT.

EDGE DIST.

TYPICAL ANCHORS SEE ELEV. FOR SPACING







PRODUCT REVISED as complying with the Florida Building Code 16-0922.02 NOA-No.

Expiration Date 09/22/2021

Miami-Dade Product Control

STATE OF CORIONAL SOLUTIONS	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	_
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	[電子]//
	STATE OF
I FRAME ADAPTER	CORIDA

INSTALLATION DETAILS WITH FLUSH

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-8978
COMP-ANL\W11-

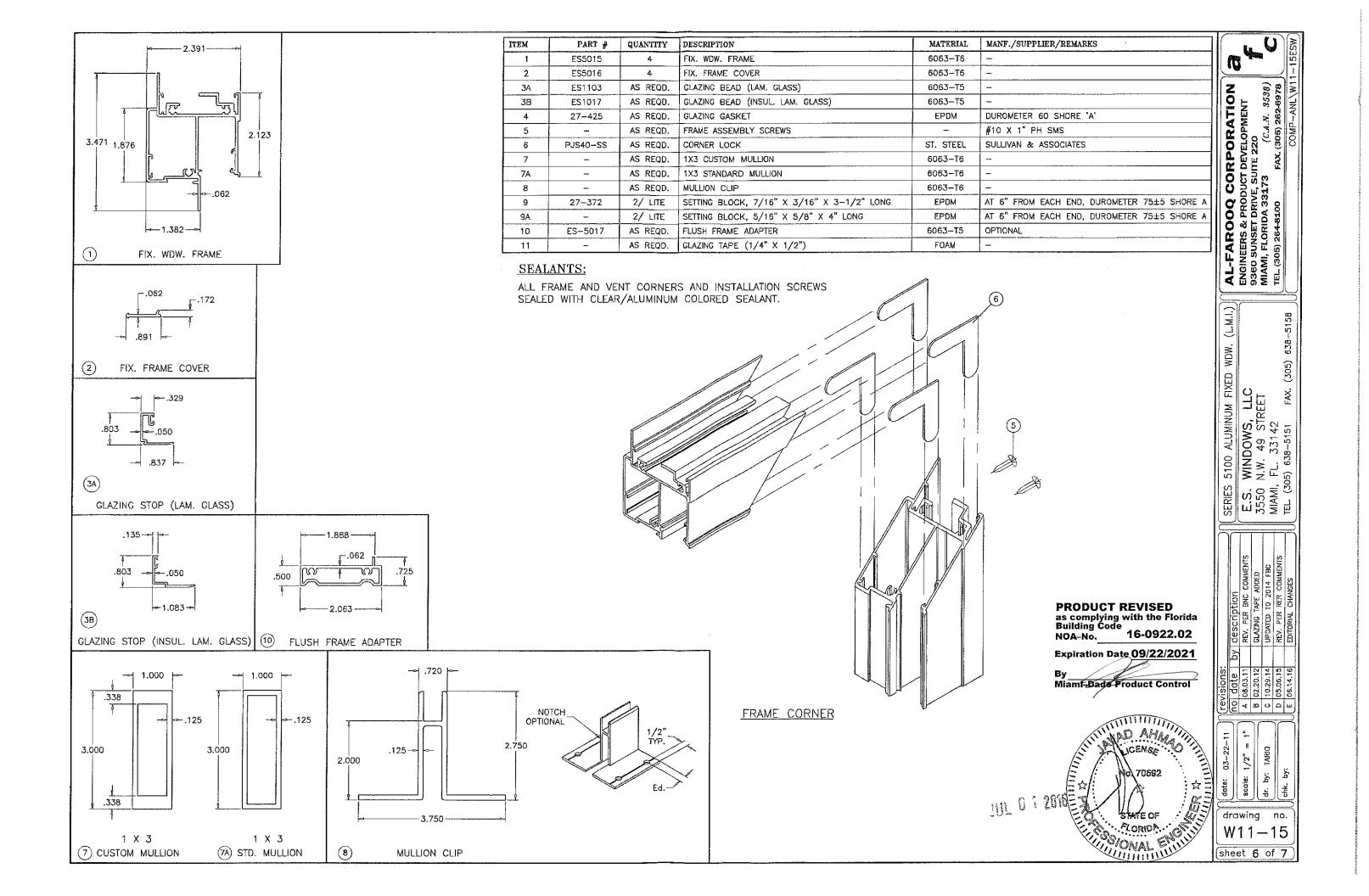
(L.M.I.)

SERIES 5100 ALUMINUM FIXED WDW. (305)E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL (305) 638-5151 FAX. (

1/2" Š

drawing no. W11 - 15

sheet 5 of 7

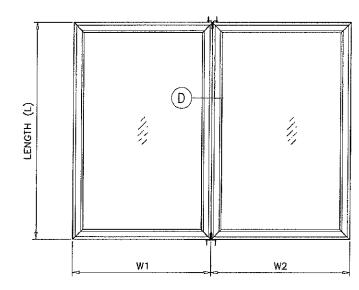


	MULLION LO	AD CAPACITY	- PSF		MULLION LO	AD CAPACITY	- PSF
WINDO	W DIMS.	1 X 3 STD. MULL	1 X 3 CUSTOM MULL	WINDO	WINDOW DIMS. STD. MULL CUSTO		
		EXT.(+)	EXT.(+)			EXT.(+)	EXT.(+)
	LENGTH (L)	······	(NT.(-)	<u>``</u>	LENGTH (L)		INT.()
26-1/2"		90.0	90.0	30"		90.0	90.0
37"		90.0	90.0	36"		90.0	90.0
42"		90.0	90.0	42"		90.0	90.0
45"	58"	90.0	90.0	48"	54"	90.0	90.0
48"		90.0	90,0	54"		90.0	90.0
53-1/8"		90.0	90.0	60"		90.0	90.0
62"		90.0	90.0	62"		90.0	90.0
26-1/2"		90.0	90.0	30"		90.0	90.0
37"		90.0	90.0	36"		90.0	90.0
42"		90.0	90.0	42"		90.0	90.0
45"	63"	90.0	90.0	48"	60"	90.0	90.0
48"		90.0	90.0	54"	İ	90.0	90.0
53-1/8"		90.0	90.0	60"		90.0	90.0
62"		90.0	90.0	62"		90.0	90.0
26-1/2"		90.0	90.0	30"		90.0	90.0
37"	ľ	90.0	90.0	36"		90.0	90.0
42"		82,5	90.0	42"	_	90.0	90.0
45"	74-1/4"	78.6	90.0	48"	66"	90.0	90.0
48"		75.4	87.4	54"		90.0	90.0
53-1/8"		71.0	83.2	59"		90.0	90.0
26-1/2"		90.0	90.0	30"		90.0	90.0
37"		84.2	90.0	36"		90.0	90.0
42"	76"	76.4	90.0	42"	72"	90.0	90.0
45"		72.8	87.6	48"		83.6	90.0
48"		69.7	84.5	54"	-	78.4	86.8
51"	ŀ	67.1	81.9	30"		90.0	90,0
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				36"	ŀ	86.1	90.0
				42"	76"	76.4	90.0
				48"		69.7	84.5
				51"	ŀ	67.1	81.9

#### NOTES:

- USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.
- 2. FOR FIXED WINDOW CAPACITY SEE SHEET 2 OF 7.
- LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.

## CLIPPED MULLIONS

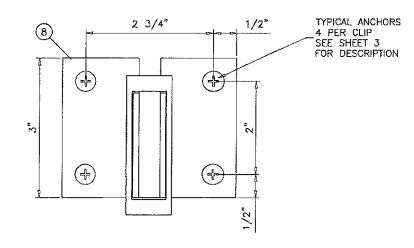


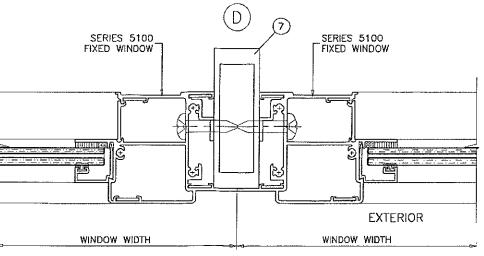
#### TYPICAL ELEVATION

SIDE BY SIDE WINDOWS

SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

WIDTH (W) = 
$$\frac{\text{W1} + \text{W2}}{2}$$

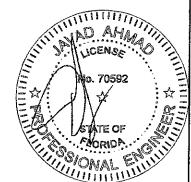




PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 16-0922.02

Expiration Date 09/22/2021

By Miami-Dade Product Control



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revisions	date	08.03,11	02,20,12	10.29.14	05.06.15	06.14.16	
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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5100 ALUMINUM FIXED

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drawing no. W11—15

sheet 7 of 7

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